WATER SUPPLY OUTLOOK FOR MONTANA

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

UNITED STATES DEPARTMENT of AGRICULTURE···SOIL CONSERVATION SERVICE,
and
MONTANA AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with Federal, State, and private organizations listed on the inside back cover of this report.

MAY 15, JUNE 1, 1968
and
SPECIAL MEASUREMENTS

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season as they affect runoff will add to be an effective average. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data or reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

D. A. WILLIAMS, Administrator

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 507, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85205
Colorado (N. Mex.)	12417 Federal Building, Denver, Colorado 80202
Idaho	P. O. Box 38, Boise, Idaho 83707
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Building, Salt Lake City, Utah 84111
Washington	360 Federal Office Building, Spokane, Washington 99201
Wyoming	P. O. Box 340, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

U. S. DEPARTMENT of AGRICULTURE
CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY
SOIL CONSERVATION SERVICE

USDA-SCS-PORTLAND, OREG. 1966

WATER SUPPLY OUTLOOK FOR MONTANA

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

D.A. WILLIAMS
ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

Released by

A. B. LINFORD
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
Bozeman, Montana

In Cooperation with

J. A. ASLESON
DIRECTOR
Montana Agricultural Experiment Station

Report prepared by

P. E. FARNES, Snow Survey Supervisor
SOIL CONSERVATION SERVICE
P.O. Box 98
Bozeman, Montana 59715

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MONTANA WATER SUPPLY OUTLOOK
June 1, 1968

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* * * * * * * * * * * * * * * * * * * * * * * *
*                                             *
* Cool weather during May delayed snow melt two *
* to three weeks.  Many snow courses have a     *
* near or above average snow pack for this date.*
*                                             *
* * * * * * * * * * * * * * * * * * * * * * * *
```

Low elevation snow is gone in most areas. High elevation snow is just beginning to melt. In general, low elevation streams have already experienced their peak flow of the year, unless heavy rainfall occurs. Major streams with higher elevation headwaters are expected to reach their peak flow between June 10 and June 20.

Final curves for all Montana snow pillows will be published in the October 1, 1968 report.

MONTANA WATER SUPPLY OUTLOOK
June 1, 1968

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* * * * * * * * * * * * * * * * * * * * * * * * * * * * *
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*                                                       *
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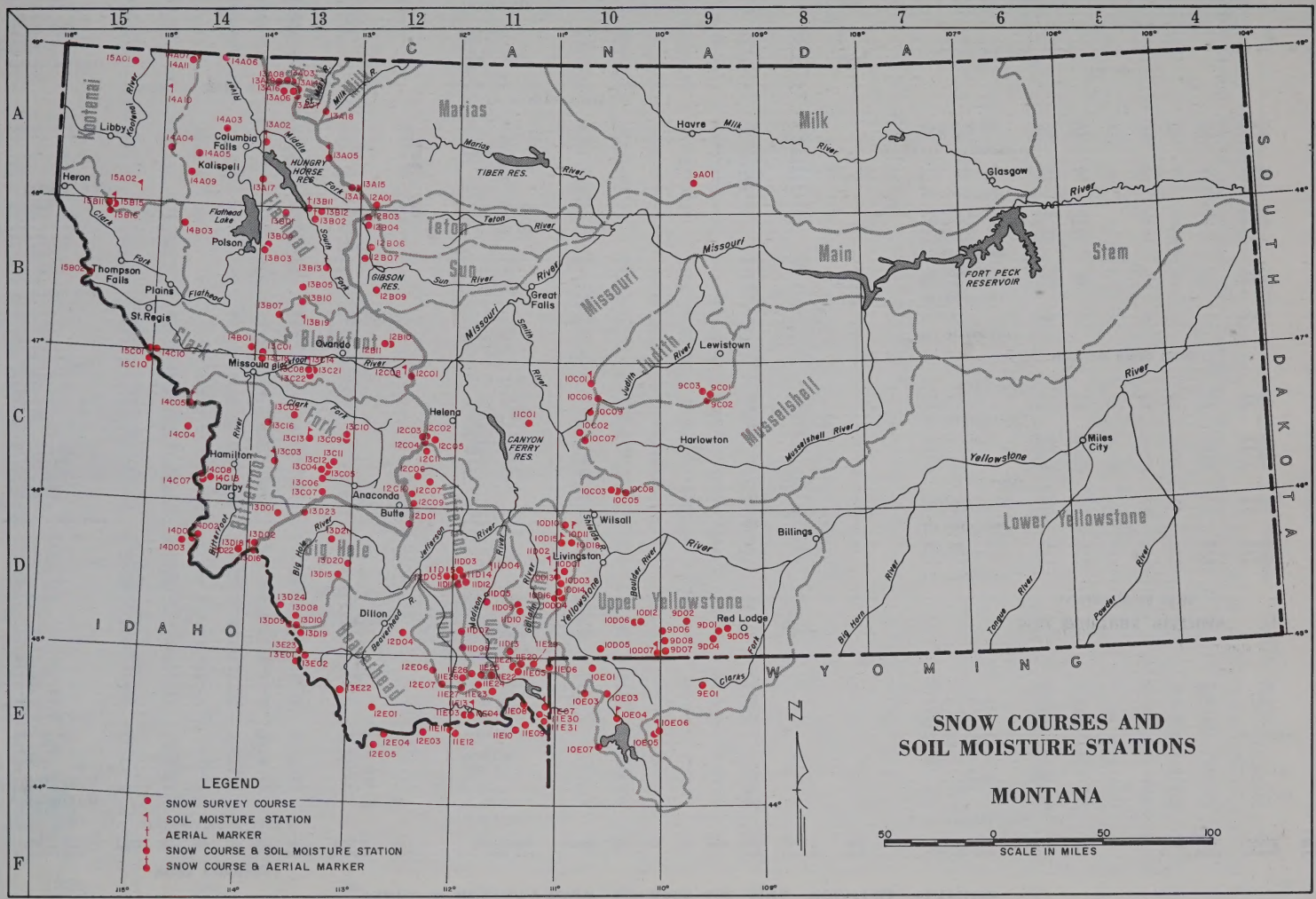
SNOW COURSES AND
SOIL MOISTURE STATIONS
MONTANA
LEGEND
SNOW SURVEY COURSE
SOIL MOISTURE STATION
AERIAL MARKER
SNOW COURSE & SOIL MOISTURE STATION
SNOW COURSE & AERIAL MARKER
SCALE IN MILES
CANADA
IDAHO
WYOMING
SOUTH DAKOTA
Libby
Heron
Columbia Falls
Kalispell
Polson
Thompson Falls
Plains
St. Regis
Missoula
Hamilton
Darby
Anaconda
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Great Falls
Havre
Glasgow
Lewistown
Harlowton
Wilsall
Livingston
Dillon
Billings
Red Lodge
Miles City
Marias
Milk
Main
Stem
Teton
Sun
Missouri
Musselshell
Lower Yellowstone
Upper Yellowstone
Big Hole
Beaverhead
Madison
Gallatin
Jefferson
Clark Fork
Bitterroot
Flathead
Kootenai
Blackfoot
Judith
Smith
Sun River
Teton River
Marias River
Milk River
Musselshell River
Yellowstone
Big Horn River
Tongue River
Powder River
Clarks Fork
Boulder River
Shields R.
Yellowstone River
Madison River
Gallatin River
Jefferson River
Beaverhead R.
Big Hole River
Bitterroot River
Clark Fork River
Flathead River
Kootenai River
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GIBSON RES.
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FORT PECK RESERVOIR

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SNOW COURSES

COLUMBIA RIVER BASIN

Drainage Basin & Course Name	Number	Elev.	Sec.	Twp.	Range	Record Began	Measuring Dates 1/	Meas. By 2/
KOOTENAI RIVER								
Bares Creek	15B11	5500	36	26N	31W	1956	3,4,5,5½	2
Bares Midway	15B16	4600	31	26N	30W	1965	3,4,5½	2
Bares Trail	15B15	3800	5	25N	30W	1965	3,4,5½	2
Brush Creek	14A04	5000	12	30N	26W	1937	3,4,5	1,2
Graves Creek	14A11	4300	1	36N	25W	1965	3,4,5,5½,6	1,2
Red Mountain	15A01	6000	4	36N	29W	1937	3,4,5,5½,6	1,2
Weasel Divide	14A07	5450	20	37N	24W	1937	3,4,5,5½,6	1,2
FLATHEAD RIVER								
Bassoo Peak	14B03	5150	11	24N	25W	1961	3,4,5	1,5
Beaver Lake	13A11	5900	31	28N	11W	1964	3,4,5	2
Big Creek	13B03	6750	7	22N	18W	1941	3,4,5, 6	1,5
Camp Misery	13A17	6400	30	28N	18W	1962	3,4,5,	1,2
Desert Mountain	13A02	5600	24	31N	19W	1937	1,2,3,4,5, 6	1,2
Fatty Creek	14B04	5500	8	22N	18W	1962	3,4,5, 6	1,5
Flattop Mountain	13A19	6300	12	35N	18W	1968	1,2,3,4,5, 6	1,6
Griffin Creek Divide	14A09	5150	11	28N	25W	1960	3,4,5	1,5
Gunsight Lake	13B12	6300	35	26N	14W	1964	3,4,5	1
Hell Roaring Divide	14A03	5770	35	32N	22W	1948	1,2,3,4,5,5½,6	2
Holbrook	13B13	4530	18	21N	13W	1951	1,2,3,4,5	1,2
Kishenehn	14A06	3890	14	37N	22W	1954	3,4	6
Logan Creek	14A05	4300	34	30N	24W	1937	3,4,5	1,2
Marias Pass	13A05	5250	34	30N	14W	1934	1,2,3,4,5	3
Mineral Creek	13A16	4000	29	35N	17W	1957	3,4,5	6
North Fork Jocko	13B07	6330	3	17N	17W	1941	3,4,5,5½,6	1,5
Spotted Bear Mountain	13B02	7000	23	25N	15W	1948	1,2,3,4,5	1
Trinkus Lake	13B01	6100	9	25N	17W	1948	3,4,5	1
Twin Creeks	13B11	3580	24	26N	16W	1951	1,2,3,4,5	1
Upper Holland Lake	13B05	7000	28	20N	15W	1948	3,4,5	1
CLARK FORK RIVER								
Black Pine	13C13	7100	26	8N	15W	1959	1,2,3,4,5,5½,6	1
Copper Creek	12B10	5700	1	15N	9W	1962	3,4,5	1,2
Cotter Mine	12B11	6250	2	15N	9W	1962	3,4,5	1,2
Coyote Hill	13B10	4200	12	18N	16W	1947	1,2,3,4,5	1,2
El Dorado Mine	13C09	7800	23	8N	12W	1949	3,4	1
Fred Burr Pass	13C11	8000	12	6N	13W	1957	3,4,5	1
Gold Creek Lake	13C10	7200	14	8N	12W	1949	3,4	1
Heart Lake Trail	14C10	4800	11	14N	27W	1965	3,4,5	1,2
Hoodoo Basin	15C10	6000	17	14N	27W	1967	1,2,3,4,5,5½,6	1,2
Hoodoo Creek	15C01	5900	16	14N	27W	1937	1,2,3,4,5	1,2
Intergaard	13C04	6450	6	5N	13W	1936	2,3,4,5	4
Lubrecht Forest No. 3	13C21	3450	19	13N	14W	1951	1,2,3,4,5	8
Lubrecht Forest No. 4	13C22	4650	23	13N	15W	1951	1,2,3,4,5	8
Lubrecht Forest No. 6	13C08	4040	11	13N	15W	1951	1,2,3,4,5	8
Red Lion	13C12	7100	22	6N	13W	1958	3,4,5	1
Skalkaho Summit	13C03	7860	30	6N	17W	1937	3,4,5,5½,6	1
Slide Rock Mountain	13C02	7100	35	10N	16W	1937	3,4,5	1
Southern Cross	13C05	6500	8	5N	13W	1936	2,3,4	4
Spring Gulch	13C18	6000	12	14N	15W	1961	1,2,3,4,5	8
Storm Lake	13C07	7780	19	4N	13W	1939	1,2,3,4,5	1
Stuart Mill	13C06	6500	19	5N	13W	1936	2,3,4	4
Stuart Mountain	13C01	7400	6	14N	18W	1936	1,2,3,4,5,5½,6	8
TV Mountain	14B01	6800	33	15N	19W	1956	1,2,3,4,5,5½,6	8
BITTEROOT RIVER								
Ambrose	13C16	6480	28	9N	18W	1960	3,4,5	1
East Fork R.S.	13D01	5400	16	2N	17W	1937	3,4	1
Gibbons Pass	13D02	7100	4	2S	16W	1934	1,2,3,4,5,5½,6	1,3
Lost Horse	14C07	5940	5	4N	23W	1960	3,4,5,5½,6	1
Nez Perce Camp	14D02	5680	19	1S	23W	1937	3,4,5	1
Nez Perce Pass	14D01	6570	25	1S	24W	1937	3,4,5	1
Saddle Mountain	13D02	7940	5	2S	19W	1965	3,4,5,5½,6	1
Twelvemile Creek	14C13	5600	34	5N	23W	1968	1,2,3,4,5,5½,6	1
Twin Lakes	14C08	6510	32	5N	23W	1960	3,4,5,5½,6	1
ST. MARY RIVER BASIN								
Hudson Bay Divide	13A18	5800	24	34N	14W	1963	3,4,5	3
Iceberg Lake No. 3	13A03	5600	1	33N	17W	1922	5	3,9
Josephine Lower No. 9	13A14	4900	22	35N	16W	1955	5	3,9
Mount Allen No. 7	13A07	5700	27	35N	16W	1922	5	3,9
Piegan Pass No. 6	13A06	5500	27	35N	16W	1922	5	3,9
Ptarmigan No. 8	13A08	5800	36	36N	17W	1937	5	3,9

MISSOURI RIVER BASIN

Drainage Basin & Course Name	Number	Elev.	Sec.	Twp.	Range	Record Began	Measuring Dates 1/	Meas. By 2/
BEAVERHEAD RIVER								
Bloody Dick	13D10	7600	12	8S	16W	1948	3,4,5	1
Carter Creek	12D04	7400	22	8S	7W	1963	2,3,4	1
Dad Creek Lake	13E22	8400	24	12S	13W	1965	3,4,5	1
Elk Horn Springs	13D15	7800	21	4S	12W	1935	3,4,5	3
Gold Stone	13D09	8100	11	8S	16W	1948	3,4,5	1
Lakeview Canyon	11E04	6930	26	14S	2W	1948	3,4,5	10
Lakeview Ridge	11E03	7400	27	14S	2W	1948	3,4,5	10
Lemhi Pass	13E01	7480	9	10S	15W	1948	3,4	1
Lemhi Ridge	13E23	8100	4	10S	15W	1967	3,4	1
Trail Creek	13E02	7090	15	10S	15W	1948	3,4	1
White Pine Ridge	12E01	8850	18	14S	9W	1948	3,4,5	1
RUBY RIVER								
Branham Lakes	11D14	8850	5	4S	3W	1967	3,4,5	1,12
Clover Meadow	11D08	8600	28	9S	2W	1963	3,4,5	1
Divide	12E07	7900	14	12S	4W	1963	3,4,5	1
Middle Mill Creek	11D15	7850	17	4S	3W	1967	3,4,5	1,12
Notch	12E06	8500	18	11S	4W	1963	3,4,5	1
Smuggler Mine	12D05	6960	24	4S	3W	1967	3,4,5	1,12
BIG HOLE RIVER								
Abundance Lake	13D20	8800	7	3S	11W	1963	3,4,5	1
Darkhorse Lake	13D19	8600	4	8S	16W	1963	3,4,5	1
Foolhen	13D21	8280	11	1S	13W	1963	3,4,5	1
Jahnke Creek	13D08	7340	25	7S	16W	1948	3,4,5	1
Palisade Creek	13D23	8450	3	2N	19W	1967	3,4,5	1
Slag-a-malt Lake	13D24	8750	29	5S	17W	1968	3,4,5	1
JEFFERSON RIVER								
Berry Meadow	12C07	7300	8	5N	5W	1962	3,4,5	1
Copper Mountain	12C09	7700	13	3N	5W	1966	2,3,4,5	4
Nez Perce Creek	12C10	6500	16	4N	6W	1967	2,3,4,5	4
Picnic Grounds	12C06	6500	21	5N	6W	1941	2,3,4	4
Pipestone Pass	12D01	7200	10	1N	7W	1938	1,2,3,4,5	1
Rocker Peak	12C11	8000	17	7N	5W	1968	1,2,3,4,5	1
MADISON RIVER								
Call Road	11D07	8050	21	8S	2W	1962	3,4,5	1
Four Mile	11D12	6900	5	4S	2W	1965	3,4,5	1
Freezeout Lake	11E25	7200	6	12S	1E	1965	3,4,5,5½,6	2
Freezeout Mountain	11E26	8250	26	11S	1W	1965	3,4,5,5½,6	2
Hebgen Dam	11B09	6550	22	11S	3E	1934	1,2,3,4,5	3
Jack Creek	11D05	7500	13	6S	1E	1961	3,4	1
Lake Creek	11E22	6100	27	11S	1E	1965	3,4,5,5½,6	2
Lion Mountain	11E28	8760	23	11S	2W	1967	1,2,3,4,5,5½,6	2
Lower Twin	11D11	7900	12	4S	3W	1965	3,4,5	1
Madison Plateau	11E31	7750	28	14S	5E	1968	1,2,3,4,5,5½,6	1,2
Meridian Creek	11E23	7000	31	12S	1E	1965	3,4,5,5½,6	2
North Meadow	11D03	7500	24	3S	3W	1961	3,4,5	1
Potomagaton Park	11E21	7150	33	10S	3E	1965	3,4,5	2
Sentinel Creek	11E20	8300	17	10S	3E	1965	3,4,5	2
Tepee Creek	11E24	8000	15	12S	1W	1965	3,4,5,5½,6	2
Upper West Fork	11E27	8750	6	12S	2W	1966	3,4,5,5½,6	2
West Yellowstone	11E07	6700	34	13S	5E	1934	1,2,3,4,5	1,3,6
Whiskey Creek	11E30	6800	19	14S	5E	1967	3,4,5	2
GALLATIN RIVER								
Arch Falls	10D14	7350	3	5S	6E	1963	1,2,3,4,5,5½,6	1
Bear Basin	11D09	8150	9	6S	3E	1963	3,4,5	1
Bridger Bowl	10D15	7250	25	1N	6E	1965	1,2,3,4,5,5½,6	1
Carrot Basin	11E29	9000	18	10S	4E	1967	1,2,3,4,5, 6	2
Devil's Slide	10D04	8100	14	5S	6E	1935	1,2,3,4,5,5½,6	1
Hood Meadow	10D03	6000	22	4S	6E	1935	2,3,4,5,5½,6	1
Lick Creek	10D13	6860	10	4S	6E	1964	1,2,3,4,5,5½,6	1
Little Park	11D10	7400	22	6S	3E	1963	3,4,5	1
Maynard Creek	12D18	6210	19	1N	7E	1967	1,2,3,4,5,5½,6	1
New World	10D01	6700	24	3S	6E	1939	2,3,4	1
Snower Falls	10D16	8100	15	5S	6E	1966	1,2,3,4,5,5½,6	1
Taylor Peaks	11D13	8500	26	9S	2E	1967	3,4,5	1
Twenty-One Mile	11E06	7150	1	11S	5E	1934	1,2,3,4,5	3
MISSOURI RIVER MAIN STEM								
Boulder Mountain	11C01	7950	1	9N	3E	1963	3,4,5	1
Chessman Reservoir	12C05	6200	2	8N	5W	1936	1,2,3,4,5	3
Deadman Creek	10C09	6450	23	12N	8E	1966	3,4,5,5½,6	1
Elk Peak	10C07	8000	10	8N	8E	1963	3,4,5	1
Grasshopper	10C02	7000	19	9N	8E	1938	3,4,5	1
Kings Hill	10C01	7500	34	13N	8E	1934	3,4,5,5½,6	1,3
Rocky Boy	9A01	5200	15	28N	16E	1941	3,4,	7
Stemple Pass	12C01	6600	16	13N	7W	1934	3,4,5	3
Ten Mile Lower	12C02	6600	12	8N	6W	1935	1,2,3,4,5	3
Ten Mile Middle	12C03	6800	13	8N	6W	1934	1,2,3,4,5	3
Ten Mile Upper	12C04	8000	19	8N	5W	1935	1,2,3,4,5	3
SUN-TETON-MARIAS RIVERS								
Badger Pass	13A15	6900	4	27N	11W	1964	3,4,5	2
Cabin Creek	12B05	5200	33	23N	10W	1949	3,4,5	2
Five-Bull	12B09	5700	25	20N	10W	1948	3,4,5	1
Freight Creek	12A01	6000	13	26N	10W	1948	3,4,5	1
Goat Mountain	12B07	7000	20	22N	10W	1934	3,4,5	3
Wrong Creek	12B04	5700	32	25N	10W	1949	3,4,5	2
Wrong Ridge	12B03	6800	17	25N	10W	1949	3,4,5	2
JUDITH RIVER								
Avalanche	9C02	7100	24	12N	17E	1966	3,4,5	1
Crystal Lake	9C01	6100	19	12N	18E	1941	3,4,5	1
Rock Creek	9C03	5600	8	12N	18E	1966	3,4,5	1
Spur Park	10C06	8000	20	12N	9E	1963	1,2,3,4,5, 6	1
UPPER YELLOWSTONE RIVER								
Bald Ridge	10C05	7500	11	4N	10E	1961	3,4,5	1
Camp Senia	9D01	7890	2	8S	16E	1937	3,4,5,5½,6	1
Cooke Station	9D07	8150	19	9S	15E	1966	3,4,5	2
Crevice Mountain	10D05	8400	22	9S	9E	1935	3,4	2
Fisher Creek	9D06	9100	11	9S	14E	1966	1,2,3,4,5,5½,6	1,2
Grizzly Peak	9D05	8400	26	7S	19E	1961	1,2,3,4,5	1,2
Independence	10D06	8000	22	7S	12E	1940	3,4,5	1
Monument Peak	10D12	9000	22	7S	12E	1961	3,4,5	1
Northeast Entrance	10D07	7400	33	9S	14E	1937	1,2,3,4,5,5½,6	1,6
Porcupine R.S.	10D03	6500	10	4N	10E	1938	3,4,5	1
Sacajawea	10D10	6550	36	2N	6E	1960	3,4,5	1
South Fork Shields	10C08	8100	13	4N	10E	1965	3,4,5	1
Timberline Creek	9D04	8850	10	8S	18E	1961	3,4,5	1
West Rosebud	9D02	7500	9	7S	16E	1960	3,4	4
White Mill	9D08	8700	18	9S	15E	1967	3,4,5	2

SOIL MOISTURE STATIONS

COLUMBIA RIVER BASIN

Drainage Basin & Course Name	Number	Elev.	Sec.	Twp.	Range	Record Began	Measuring Dates 1/	Meas. By 2/
KOOTENAI RIVER								
Bares Trail	15B19M	3800	5	25N	30W	1964	Monthly	2
Murphy Lake R.S.	14A10M	3000	5	34N	23W	1964	Monthly	2
Raven R.S.	15A02M	3050	2	26N	29W	1964	Monthly	2
FLATHEAD RIVER								
Desert Mountain	13A02M	5600	24	31N	19W	1956	Monthly	1
Marias Pass	13A09M	5250	34	30N	14W	1950	Monthly	1
CLARK FORK RIVER								
Black Pine	13C13M	7100	26	8N	15W	1965	Monthly	1
Lubrecht Forest	13C14M	4100	11	13N	15W	1961	Monthly	8
Seeley Lake	13B19M	4030	21	17N	15W	1963	Monthly	2
Skalkaho Summit	13C03M	7260	30	6N	17W	1964	Monthly	1
BITTEROOT RIVER								
Gibbons Pass	13D18M	7100	4	2S	19W	1962	Monthly	1
Lolo Pass	14C05M	5250	11	10N	24W	1963	Monthly	1

MISSOURI RIVER BASIN

Drainage Basin & Course Name	Number	Elev.	Sec.	Twp.	Range	Record Began	Measuring Dates 1/	Meas. By 2/
BEAVERHEAD RIVER								
Lakeview	11E13M	6700	23	14S	2W	1962	Monthly	10
MADISON RIVER								
Red Bluff	11D04M	4800	7	3S	1E	1961	Monthly	7
West Yellowstone	11E07M	6700	34	13S	5W	1966	Monthly	6
GALLATIN RIVER								
Bridger Bowl	10D15M	7250	25	1N	6E	1965	Monthly	1
College Site	11D02M	4856	18	2S	5E	1956	Monthly	1
Lick Creek	10D13M	6860	10	4S	6E	1965	Monthly	1
Twenty-One Mile	11E06M	7150	1	11S	5E	1963	Monthly	6
MISSOURI RIVER MAIN STEM								
Kings Hill	10C01M	7420	34	13N	8E	1963	Monthly	1
Stemple Pass	12C08M	6350	16	13N	7W	1963	Monthly	1
YELLOWSTONE RIVER								
Battle Ridge	10D11M	6020	32	2N	7E	1960	Monthly	1
Northeast Entrance	10D07M	7350	33	9S	14E	1962	Monthly	6

LEGEND

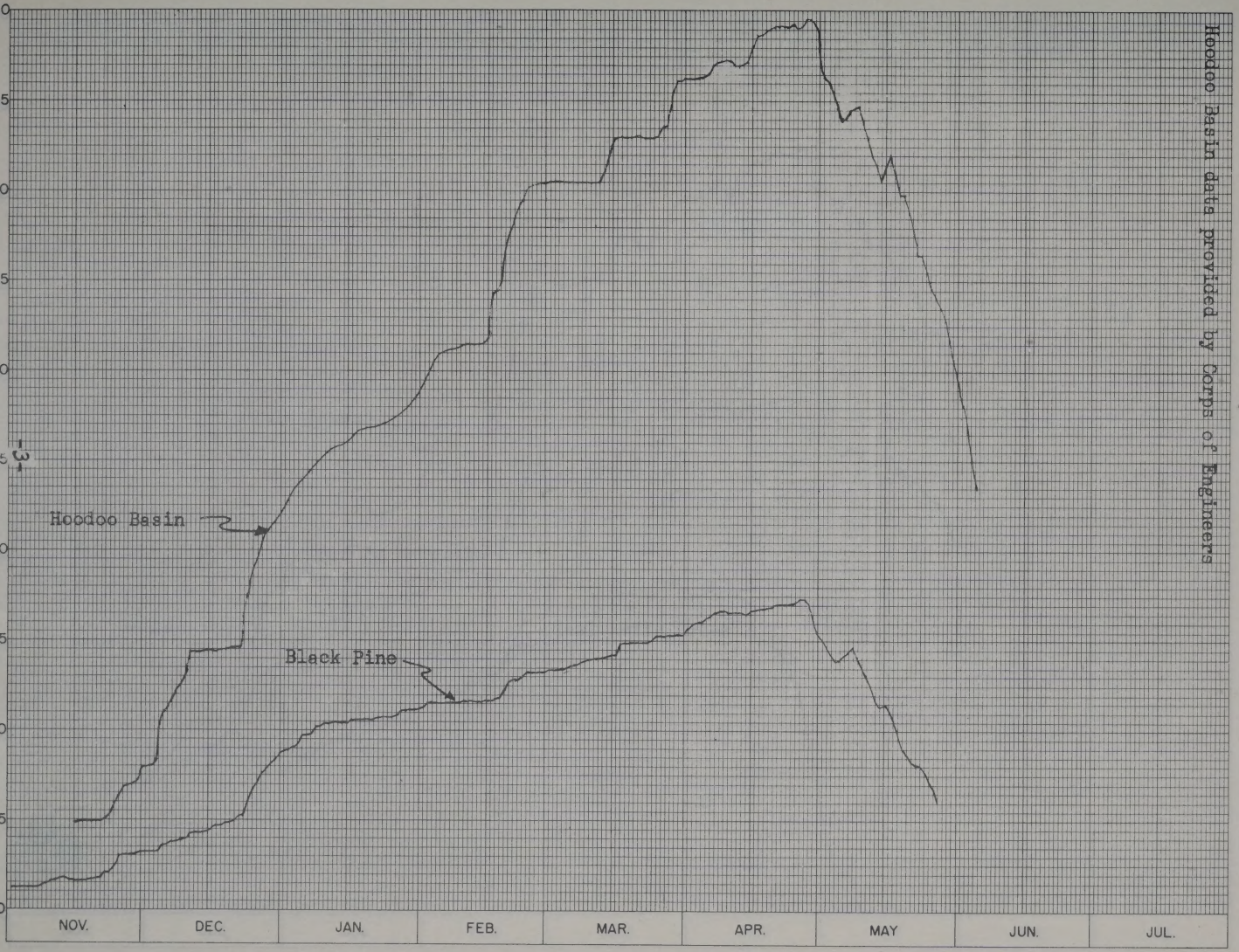
1/ Numerals 1,2,3,4,5,5½,6 refer to January 1, February 1, March 1, April 1, May 1, May 15 and June 1.

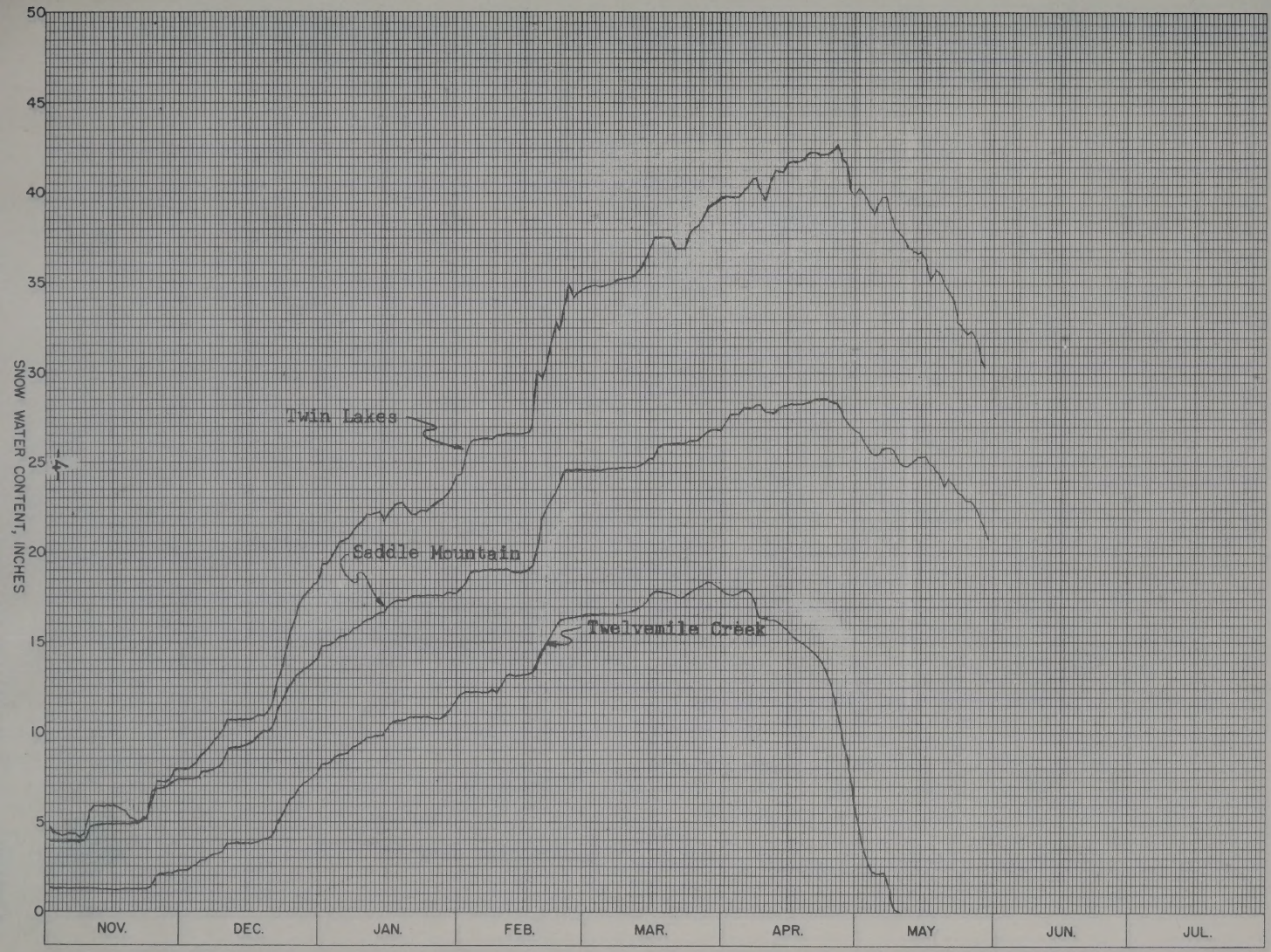
2/ Numerals refer to Agency that makes the snow survey as follows:

1. U. S. Soil Conservation Service
2. U. S. Forest Service
3. U. S. Geological Survey
4. Montana Power Company
5. U. S. Indian Service
6. U. S. National Park Service
7. MSU Agricultural Experiment Station
8. U. of M. School of Forestry
9. Department of Energy, Mines & Resources
10. U. S. Bureau of Sport Fisheries & Wildlife
11. Private Cooperator
12. Soil and Water Conservation District

SNOW PILLOW DATA
WATER YEAR 1968

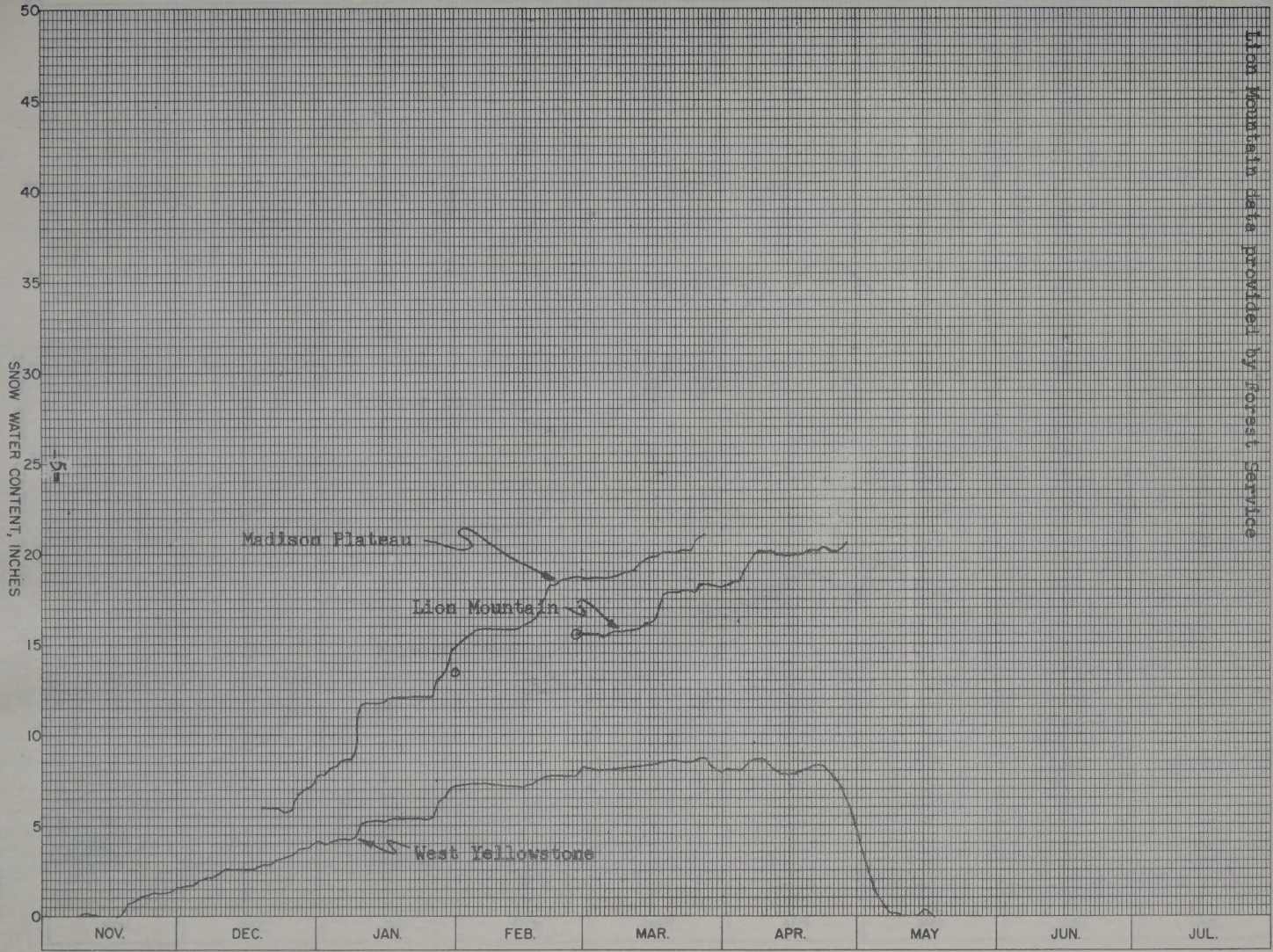
No. _____ Elev. _____ Drainage: CLARK FORK




SNOW PILLOW DATA
WATER YEAR 1968
No.
Elev.
Drainage: BITTERROOT
SNOW WATER CONTENT, INCHES
50
45
40
35
30
25
20
15
10
5
0
Twin Lakes
Saddle Mountain
Twelvemile Creek
NOV.
DEC.
JAN.
FEB.
MAR.
APR.
MAY
JUN.
JUL.

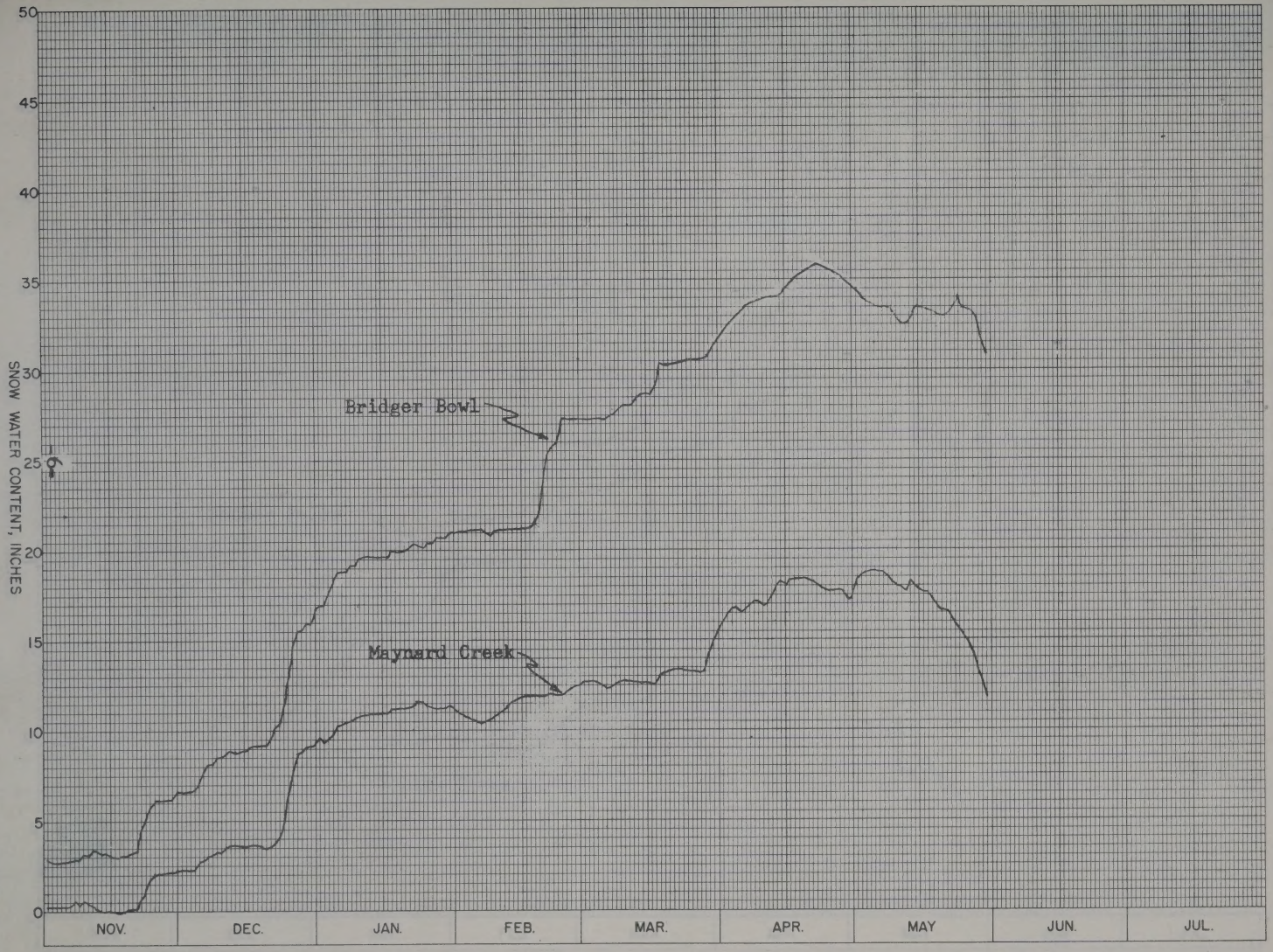
SNOW PILLOW DATA
WATER YEAR 1968

No. _____ Elev. _____ Drainage: MADISON



SNOW PILLOW DATA
WATER YEAR 1968

No. _____ Elev. _____ Drainage: GALLATIN



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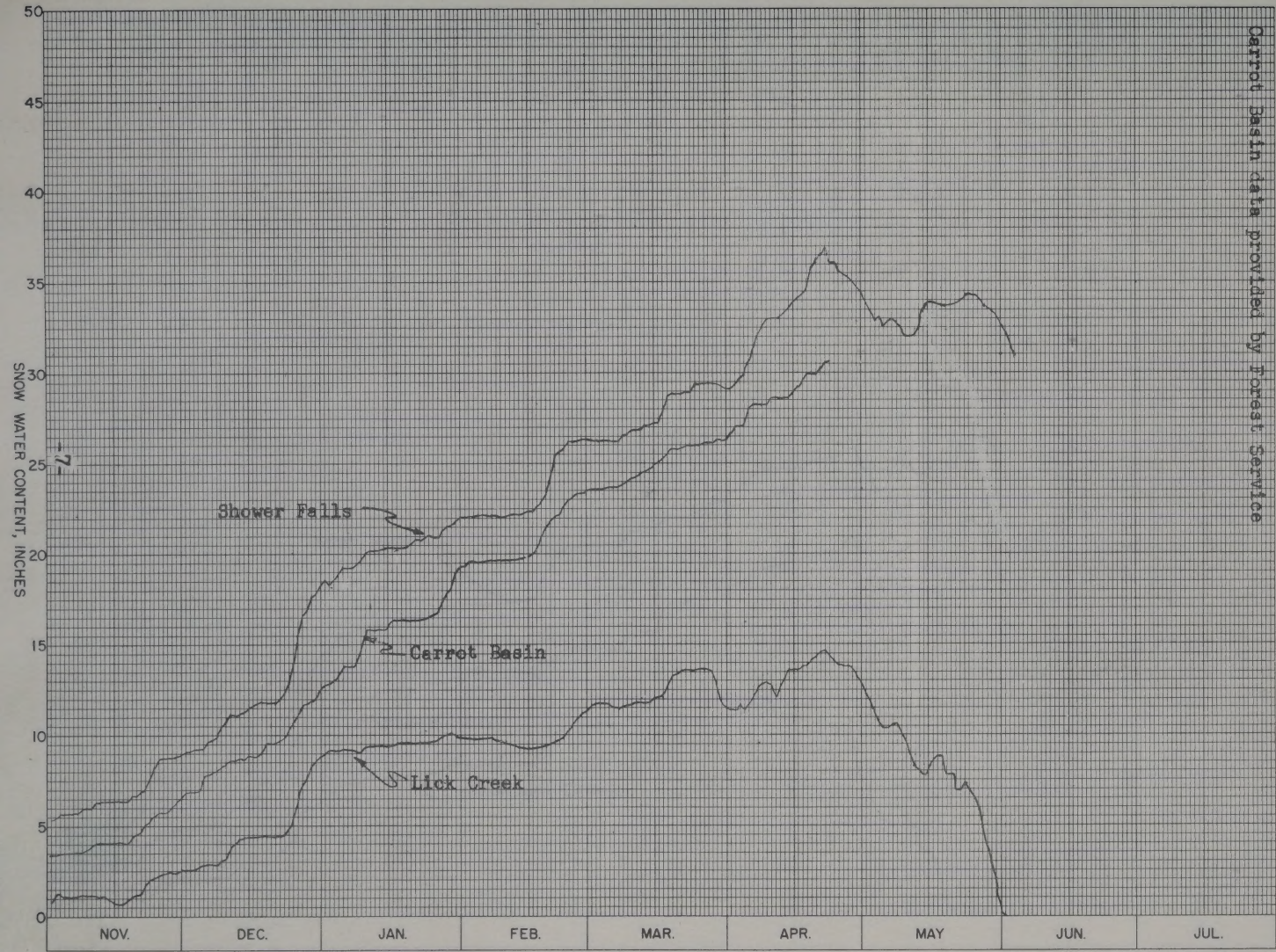
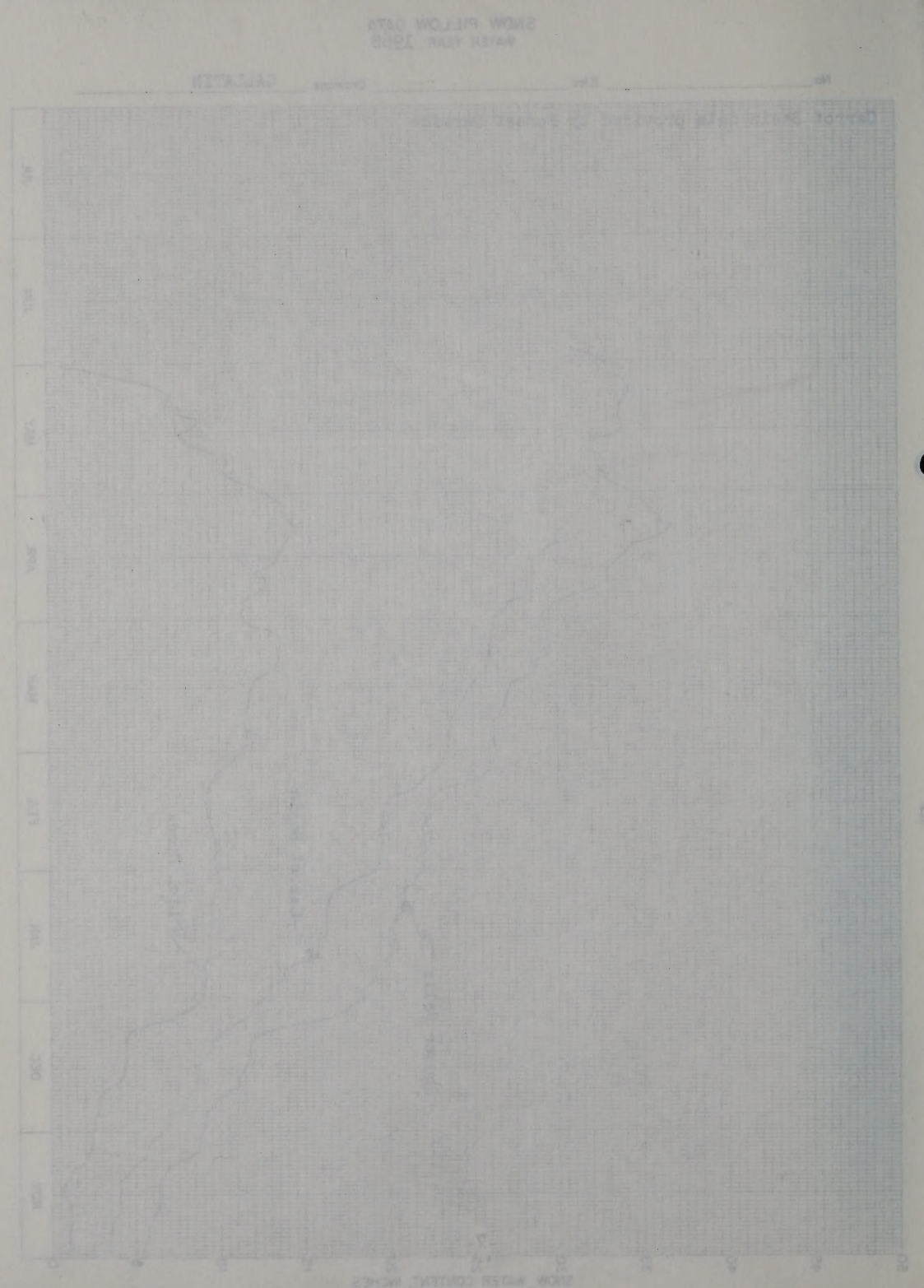
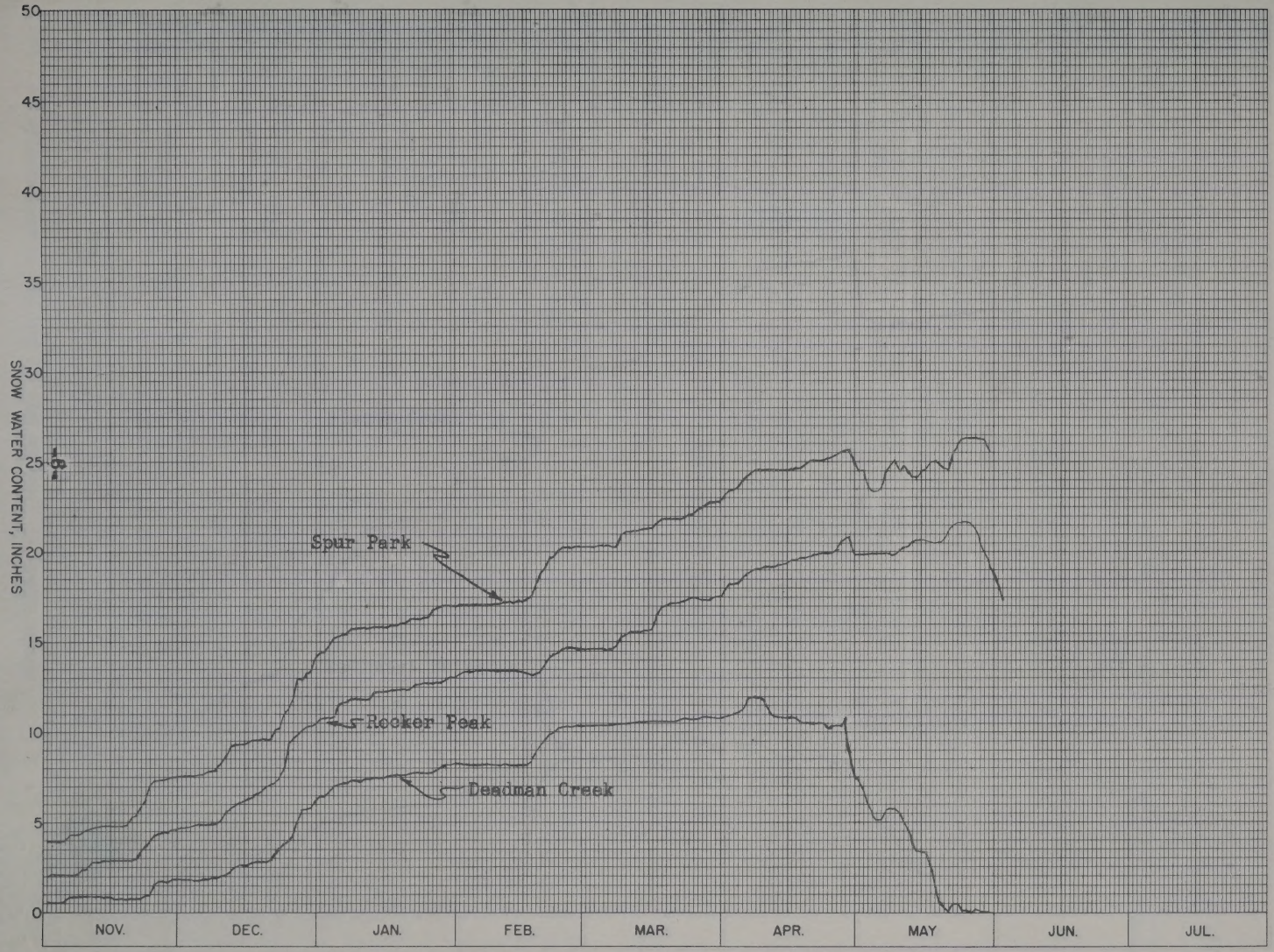
SNOW PILLOW DATA
WATER YEAR 1968

No. _____ Elev. _____ Drainage: GALLATIN

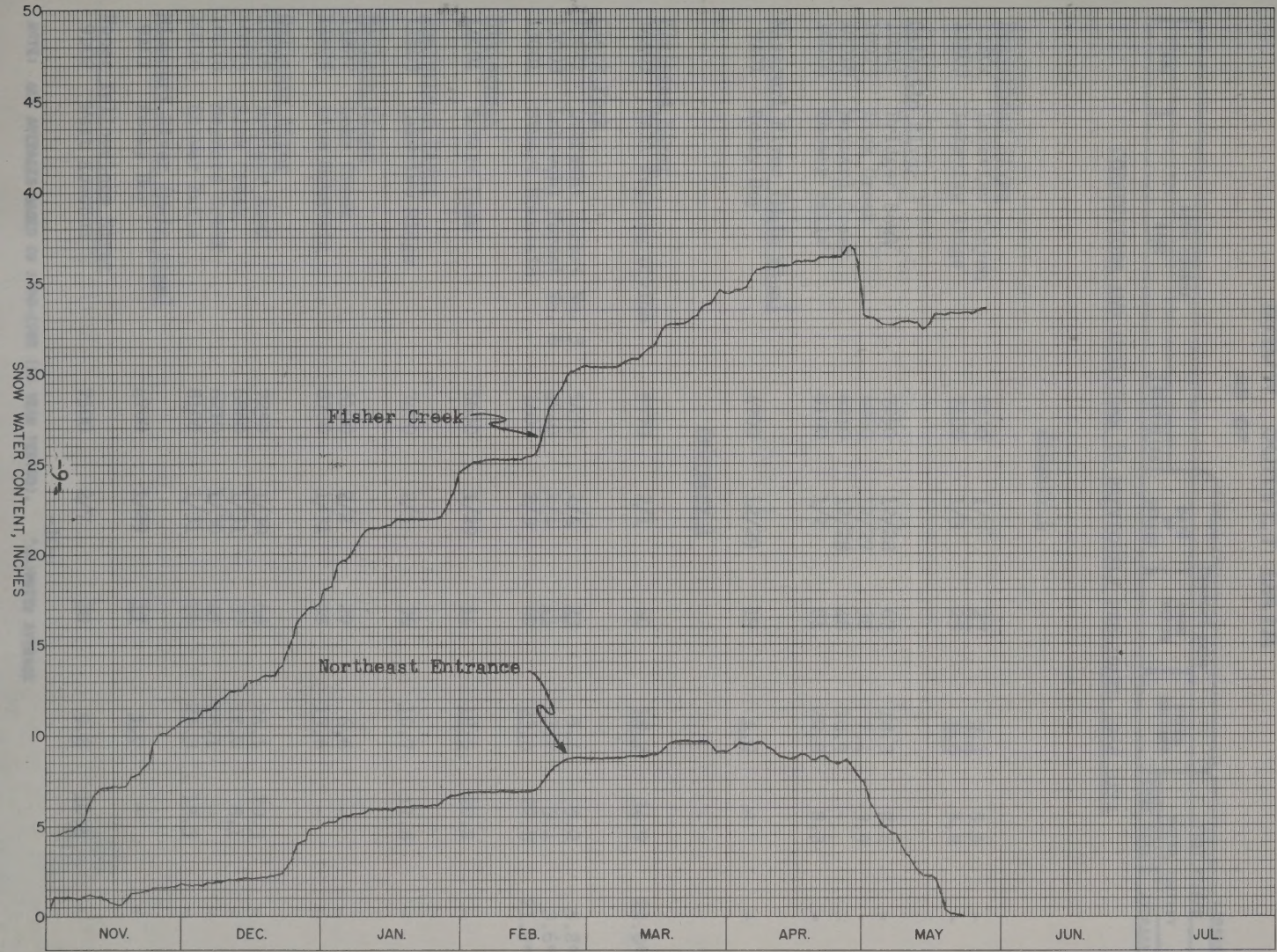





SNOW PILLOW DATA
WATER YEAR 1968
No.
Elev.
Drainage: JUDITH-JEFFERSON-MISSOURI
SNOW WATER CONTENT, INCHES
50
45
40
35
30
25
20
15
10
5
0
Spur Park
Rocker Peak
Deadman Creek
NOV.
DEC.
JAN.
FEB.
MAR.
APR.
MAY
JUN.
JUL.

SNOW PILLOW DATA
WATER YEAR 1968

No. _____ Elev. _____ Drainage: YELLOWSTONE



SNOW SURVEY DATA

AS OF

(Inches)

SNOW COURSE			CURRENT DATA			PAST RECORD	
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	WATER CONTENT	
						LAST YEAR	AVERAGE
CORRECTIONS AND ADDITIONS TO PREVIOUSLY PUBLISHED 1968 DATA							
January 1							
Beaverhead River							
11E04	Lakeview Canyon	6930	1/3	27	7.1	5.5	-
11E03	Lakeview Ridge	7400	1/3	25	6.6	5.8	-
Gallatin River							
10D15	Bridger Bowl	7250	12/28	67	18.3	8.4	-
10D13	Lick Creek	6860	12/27	38	7.4	3.9	-
10D18	Maynard Creek	6210	12/28	46	10.9	-	-
10D16	Shower Falls	8100	1/2	81	20.8	8.3	-
Missouri River (Main Stem)							
9A01	Rocky Boy	4700	12/29	19	4.0	-	-
February 1							
Flathead River							
14A03	Hell Roaring Divide	5770	2/1	60	18.2	34.9	22.0*
Clark Fork							
13C21	Lubrecht Forest No. 3	5450	2/4	23	5.4	5.2	5.8*
13C08	Lubrecht Forest No. 6	4040	2/4	11	3.2	3.4	3.6*
13C01	Stuart Mountain	7400	2/3	69	23.6	22.8	21.9*
Bitterroot							
14C04	Savage Pass	6600	1/29	54	18.5	20.2	-
Beaverhead River							
11E03	Lakeview Ridge	7400	2/5	36	10.7	11.8	-
Madison River							
11E22	Lake Creek	6100	2/2	29	6.6	-	-
11E28	Lion Mountain	8760	1/31	58	13.6	-	-
Gallatin River							
10D15	Bridger Bowl	7250	1/30	68	24.5	20.3	-
10D13	Lick Creek	6860	1/31	37	11.0	8.1	-
10D18	Maynard Creek	6210	1/30	45	16.1	-	-
10D16	Shower Falls	8100	1/31	76	25.3	18.3	-
Missouri River (Main Stem)							
9A01	Rocky Boy	4700	1/29	17	5.0	-	-
Upper Yellowstone River							
9D02	West Rosebud	7500	2/7	30	9.8	10.8	-

NOTE: ALL AVERAGES BASED ON 1948-1962 (15 YEAR PERIOD). *ADJUSTED AVERAGE

CORRECTIONS AND ADDITIONS TO PREVIOUSLY PUBLISHED SNOW DATA

January 1

No.	Name	Elevation	Date	Depth of Snow	Water Content	Past Years Average
Beaverhead River						
11E01	Lakeview Canyon	6930	1/3	27	7.1	5.5 -
11E03	Lakeview Ridge	7400	1/3	25	6.6	5.8 -
Gallatin River						
10D15	Bridger Bowl	7250	12/28	67	18.3	8.4 -
10D13	Lick Creek	6860	12/27	38	7.4	3.9 -
10D18	Maynard Creek	6210	12/28	45	10.9	- -
10D16	Shower Falls	8100	1/2	81	20.8	8.3 -
Missouri River (Main Stem)						
9A01	Rocky Boy	4700	12/29	19	4.0	- -

February 1

No.	Name	Elevation	Date	Depth of Snow	Water Content	Past Years Average
Flathead River						
1A03	Hell Roaring Divide	5770	2/1	40	14.2	34.9 22.0*
Clark Fork						
1E21	Lubrecht Forest No. 3	3450	2/4	23	5.4	5.2 8.8*
1E08	Lubrecht Forest No. 6	4010	2/4	44	3.2	3.2 5.6*
1E01	Stuart Mountain	7400	2/3	69	23.6	22.8 21.0*
Bitterroot						
1L01	Savage Pass	6800	1/29	54	16.3	20.2 -
Beaverhead River						
11E03	Lakeview Ridge	7400	2/5	36	10.7	11.8 -
Madison River						
11E22	Lake Creek	6300	2/2	29	5.6	- -
11E28	Lion Mountain	8760	1/31	39	13.6	- -
Gallatin River						
10D15	Bridger Bowl	7250	1/30	68	24.5	20.3 -
10D13	Lick Creek	6860	1/31	37	11.0	8.1 -
10D18	Maynard Creek	6210	1/30	45	16.1	- -
10D16	Shower Falls	8100	1/31	76	25.3	18.3 -
Missouri River (Main Stem)						
9A01	Rocky Boy	4700	1/29	17	3.0	- -
Upper Yellowstone River						
9D02	West Boundary	7500	2/7	30	9.8	10.8 -

NOTE: All averages based on 1942-1960 (if year per 100). "Normal" average.

SNOW SURVEY DATA

AS OF

(Inches)

SNOW COURSE			CURRENT DATA			PAST RECORD	
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	WATER CONTENT	
						LAST YEAR	AVERAGE

Corrections and Additions to Previously Published 1968 Data - cont.

March 1

Kootenai River							
14A04	Brush Creek	5000	2/28	22	8.1	13.2	12.7*
Beaverhead River							
12D04	Carter Creek	7400	2/28	17	3.6	-	4.0*
11E04	Lakeview Canyon	6930	3/4	37	12.2	13.0	9.6
11E03	Lakeview Ridge	7400	3/4	31	10.0	11.8	8.1
Sun-Teton-Marias Rivers							
13A15	Badger Pass	6900	2/27	89	34.0E	42.5	31.0*

April 1

Kootenai River							
14A04	Brush Creek	5000	3/29	24	8.8	15.0	14.3*
Clark Fork River							
13C01	Stuart Mountain	7400	3/30	78	32.0	35.4	32.6
Beaverhead River							
13E22	Dad Creek Lake	8400	4/1	44	14.7E	17.4	12.5*
12E01	White Pine Ridge	8850	4/1	24	6.9E	5.2	5.9
Ruby River							
11D08	Clover Meadow	8600	4/1	61	20.7E	21.7	15.0*
12E07	Divide	7900	4/1	34	10.8E	13.1	9.0*
12E06	Notch	8500	4/1	49	16.6E	18.7	12.5*
Big Hole River							
13D20	Abundance Lake	8800	3/29	66	22.2	21.2	20.3*
13D19	Darkhorse Lake	8600	4/1	79	28.5E	31.0	26.0*
13D24	Slag-A-Melt Lake	8750	4/1	70	25.5E	-	-
Madison River							
11D07	Call Road	8050	4/1	39	13.0E	14.7	10.2*
11E30	Whiskey Creek	6800	3/28	50	17.0	26.0	-
Gallatin River							
10D14	Arch Falls	7350	4/1	48	16.5	16.8	12.1*

E - Estimated data - no survey.

NOTE: ALL AVERAGES BASED ON 1948-1962 (15 YEAR PERIOD). *ADJUSTED AVERAGE

Corrections and Additions to Previously Published 1968 Data - cont.

March 1

No.	Name	Elevation	Date of Survey	Water Content	Snow Depth	Water Content	Last 1968	Difference
	Kootenai River							
1A20A	Brush Creek	5000	2/28	22	8.1	13.2	12.7*	
	Beaverhead River							
1ZD01	Gerter Creek	7400	2/28	17	3.6	-	4.0*	
1ZR01	Lakeview Canyon	6930	3/4	37	22.2	13.0	9.6	
1ZR03	Lakeview Ridge	7400	3/4	31	10.0	11.8	8.1	
	Sun-Teton-Marias Rivers							
1JA15	Badger Pass	6900	2/27	29	14.0E	12.5	31.0*	

April 1

No.	Name	Elevation	Date of Survey	Water Content	Snow Depth	Water Content	Last 1968	Difference
	Kootenai River							
1A20A	Brush Creek	5000	3/29	24	8.8	15.0	14.3*	
	Clark Fork River							
1J01	Stuart Mountain	7400	3/30	78	32.0	35.4	32.6	
	Beaverhead River							
1ZE22	Red Cross Lake	8200	4/1	44	14.7E	17.4	12.5*	
1ZR01	White Pine Ridge	8540	4/1	34	5.9E	5.2	5.9	
	Ruby River							
1JD08	Clover Meadow	8400	4/1	61	20.7E	21.7	15.0*	
1ZM07	Divide	7900	4/1	34	10.8E	11.1	9.0*	
1ZP06	Notch	8580	4/1	49	15.6E	18.7	12.5*	
	Big Hole River							
1J020	Abundance Lake	8400	3/29	60	22.2	21.2	20.3*	
1J019	Berthrene Lake	8600	4/1	70	28.5E	31.0	26.0*	
1J024	Slag-A-Melt Lake	8750	4/1	70	25.5E	-	-	
	Madison River							
1JD07	Cell Road	8050	4/1	39	13.0E	14.7	10.2*	
1JE30	Wheeler Creek	6800	3/28	58	17.0	26.0	-	
	Gallatin River							
1GD12	Arch Falls	7350	4/4	46	10.5	16.8	12.1*	

E - Estimated data - no survey.

SNOW SURVEY DATA

AS OF

(inches)

SNOW COURSE			CURRENT DATA			PAST RECORD	
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	WATER CONTENT LAST YEAR	WATER CONTENT AVERAGE

Corrections and Additions to Previously Published 1968 Data - cont.

April 1 - cont.

Missouri River (Main Stem)							
12C10	Nez Perce Creek	6500	4/1	22	6.6	8.7	-
Sun-Teton-Marias Rivers							
13A15	Badger Pass	6900	4/5	100	41.6	43.3	36.0*
12B07	Goat Mountain	7000	3/31	27	8.1	15.6	12.3
Judith River							
9C01	Crystal Lake	6100	4/1	42	16.2	19.1	12.2
9C03	Rock Creek	5600	4/1	29	11.4	12.3	-
Upper Yellowstone River							
9D08	White Mill	8700	3/29	78	27.1	36.6	-

May 1

Beaverhead River							
13E22	Dad Creek Lake	8400	5/1	46	15.5E	18.6	14.5*
12E01	White Pine Ridge	8850	5/1	25	7.4E	7.5	7.2*
Ruby River							
11D08	Clover Meadow	8600	5/1	60	21.8E	23.6	17.3*
12E07	Divide	7900	5/1	33	10.5E	14.2	9.4*
12E06	Notch	8500	5/1	47	16.8E	20.5	15.0*
Big Hole River							
13D20	Abundance Lake	8800	4/30	62	24.4	24.3	23.6*
13D19	Darkhorse Lake	8600	5/1	83	31.5E	32.4	28.4*
13D21	Foolhen	8280	5/10	50	20.0	23.9	20.8*
13D24	Slag-A-Melt Lake	8750	5/1	76	29.0E	-	-
Madison River							
11D07	Call Road	8050	5/1	40	13.5E	16.0	12.0*

E - Estimated data - no survey.

NOTE: ALL AVERAGES BASED ON 1948-1962 (15 YEAR PERIOD). *ADJUSTED AVERAGE

SNOW SURVEY DATA

AS OF

Station	Name	Elevation	Date of survey	Snow depth	Water content	Water content as % of normal
	SNOW COURSE		**CURRENT DATA**			**PAST STORAGE**
						Water Year 1 Year Ago

Corrections and Additions to Previously Published 1958 Data - cont.

April 1 - cont.

Missouri River (Main Stem)						
12010	Hot Springs Creek	5500	4/1	22	5.6	8.7
Sun-Teton-Marias Rivers						
12415	Badger Pass	6900	4/5	100	41.6	43.3
12807	Goat Mountain	7000	3/31	27	8.1	15.6
Judith River						
9001	Crystal Lake	6100	4/1	22	16.2	19.1
9003	Rock Creek	5600	4/1	20	11.4	12.3
Upper Yellowstone River						
9008	White Mill	8700	3/29	78	27.1	34.5

May 1

Beaverhead River						
13522	Red Creek Lake	8400	5/1	46	15.5E	18.6
13801	White Pine Bridge	8850	5/1	24	7.4E	7.5
Ruby River						
11808	Clover Meadow	8600	5/1	60	21.2E	23.6
12607	Divide	7900	5/1	33	10.3E	14.2
12806	Moten	8500	5/1	47	16.8E	20.5
Big Hole River						
13020	Ahnebrow Lake	8200	4/30	62	24.4	24.3
13019	Darlingtons Lake	8600	5/1	83	34.4E	34.4
13821	Fenlinn	8280	5/10	50	20.0	23.0
13821	Blue-A-Melt Lake	8750	5/1	78	34.4E	-
Madison River						
11807	Cell Road	8050	5/1	40	17.3E	16.0

E - Estimated data - no survey.

NOTE: ALL ACTUAMETS BASED ON 1958-1959 (16 YEAR MEANS). "NORMALS" ARE MEANS.

SNOW SURVEY DATA

AS OF MAY 15, 1968

(Inches)

SNOW COURSE			CURRENT DATA			PAST RECORD	
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	WATER CONTENT	
						LAST YEAR	AVERAGE
COLUMBIA RIVER BASIN							
KOOTENAI RIVER							
15B11	Baree Creek	5500	5/15	68	33.6	65.5	42.3*
15B16	Baree Midway	4600	5/15	27	12.4	44.4	-
15B15	Baree Trail	3800	5/15	0	0.0	0.0	-
BC 11	Glacier	4100	5/14	61	26.7	40.7	19.3*
14A11	Graves Creek	4300	5/15	14	5.2	19.5	-
BC 43	Gray Creek	5100	5/13	45	17.2	27.9	17.6*
BC 33	Kicking Horse	5400	5/14	34	12.1	20.5	7.8*
BC 32	Marble Canyon	5000	5/14	30	10.4	13.4	8.7*
BC 10B	Morrissey Ridge	6100	5/13	42	18.3	41.6	-
15A01	Red Mountain	6000	5/14	34	13.7	26.8	18.4*
BC 20A	Sullivan Mine	5100	5/15	16	6.1	18.0	6.8*
14A07	Weasel Divide	5450	5/15	66	28.0	43.2	32.6*
FLATHEAD RIVER							
14A03	Hell Roaring Divide	5770	5/14	47	21.4	41.8	25.5*
13B07	North Fork Jocko	6330	5/15	88	38.7	58.2	45.0*
CLARK FORK RIVER							
13C13	Black Pine	7100	5/14	25	10.4	21.1	-
13C13	Black Pine Pillow	7100	5/14	SP	11.6	22.8	-
14C10	Heart Lake Trail	4800	5/16	10	4.4	-	-
15C10	Hoodoo Basin	6000	5/16	98	44.8	-	-
15C10	Hoodoo Basin Pillow	6000	5/16	SP	42.1	58.6	-
15C01	Hoodoo Creek	5900	5/16	88	39.4	-	-
13C04	Intergaard	6450	5/15	22	7.4	12.7	-
15B02	Lookout	5250	5/16	49	22.7	41.1	-
13C03	Skalkaho Summit	7260	5/14	54	23.4	33.1	23.0*
13C01	Stuart Mountain	7400	5/11	66	30.4	40.5	23.5*
14B01	TV Mountain	6800	5/11	42	16.9	20.6	-
BITTERROOT RIVER							
13D02	Gibbons Pass	7100	5/14	35	15.6	28.8	20.1*
14C07	Lost Horse	5940	5/14	57	25.8	36.3	-
13D22	Saddle Mountain	7940	5/14	60	27.0	36.6	-
13D22	Saddle Mountain Pillow	7940	5/14	SP	25.2	-	-
14C13	Twelvemile Creek	5600	5/14	2	1.1	-	-
14C13	Twelvemile Creek Pillow	5600	5/14	SP	0.1	-	-
14C08	Twin Lakes	6510	5/14	87	40.0	49.3	-
14C12	Twin Lakes Pillow	6400	5/14	SP	37.0	-	-

SP - Snow pillow observation - water content only.

NOTE: ALL AVERAGES BASED ON 1948-1962 (15 YEAR PERIOD). *ADJUSTED AVERAGE

SNOW SURVEY DATA

AS OF MAY 15, 1958

No.	Name	Elevation	Snow Course Date of Survey	Snow Course Depth	Snow Course Water Content	Snow Course % of Normal	Snow Course % of Last Year	Snow Course % of Average
	COLUMBIA RIVER BASIN							
	KOOTENAI RIVER							
1S21I	Bares Creek	5500	5/15	68	33.0	65.5	42.3*	
1S21G	Bares Midway	4100	5/15	27	12.4	44.4	-	
1S21S	Bares Trail	3600	5/15	0	0.0	0.0	-	
BC 11	Olaster	4100	5/14	61	26.7	40.7	19.3*	
1A21I	Graves Creek	4300	5/15	14	5.2	39.5	-	
BC 43	Gray Creek	3100	5/13	45	17.2	27.9	17.6*	
BC 33	Kicking Horse	5400	5/14	34	12.1	20.5	7.8*	
BC 32	Marble Canyon	5000	5/14	30	10.4	12.4	8.7*	
BC 108	Mortlasey Ridge	6100	5/13	42	18.3	41.6	-	
1S21I	Red Mountain	6000	5/14	34	13.7	26.8	18.1*	
BC 20A	Spillwam Mine	5100	5/15	16	6.1	18.0	6.8*	
1A21J	Weasel Divide	5450	5/15	66	24.0	43.2	32.6*	
	FLATHEAD RIVER							
1A21J	Bull Roaring Divide	5770	5/14	47	21.4	41.8	24.8*	
1S21J	North Fork Jocko	4530	5/15	88	39.7	58.2	45.0*	
	CLARK FORK RIVER							
1S21J	Black Pine	7100	5/14	25	10.4	21.1	-	
1S21J	Black Pine Pillow	7100	5/14	SP	11.6	22.8	-	
1A21J	Beart Lake Trail	4800	5/16	10	4.4	-	-	
1S21J	Hoodoo Basin	5000	5/16	94	41.8	-	-	
1S21J	Hoodoo Basin Pillow	5000	5/16	SP	42.1	58.6	-	
1S21J	Hoodoo Creek	5900	5/16	88	34.4	-	-	
1S21J	Tetrgrand	6450	5/15	22	7.4	12.7	-	
1S21J	Lookout	5750	5/15	49	22.7	41.1	-	
1S21J	Stanlake Summit	7250	5/14	34	23.4	33.1	23.0*	
1A21J	Stuart Mountain	7400	5/11	45	30.4	40.5	23.5*	
1A21J	TV Mountain	6850	5/11	42	16.9	20.6	-	
	BITTERROOT RIVER							
1S22J	Gibbons Pass	7100	5/14	35	15.6	24.8	20.1*	
1A22J	Lost Horse	5940	5/14	57	23.8	36.3	-	
1S22J	Saddle Mountain	7440	5/14	60	27.0	36.6	-	
1S22J	Saddle Mountain Pillow	7440	5/14	SP	25.3	-	-	
1A21J	Twelvemile Creek	5600	5/14	2	1.1	-	-	
1A21J	Twelvemile Creek Pillow	5600	5/14	SP	0.3	-	-	
1A22J	Twin Lakes	6510	5/14	57	40.0	49.3	-	
1A21J	Twin Lakes Pillow	6400	5/14	SP	37.0	-	-	

SP - Snow pillow observation - water content only.

NOTE: ALL AVERAGES BASED ON 1945-1954 (10 YEAR PERIOD). "MAINSTEM AVERAGE

SNOW SURVEY DATA

AS OF MAY 15, 1968

(inches)

SNOW COURSE			CURRENT DATA			PAST RECORD	
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	WATER CONTENT	
						LAST YEAR	AVERAGE
	MISSOURI RIVER BASIN						
JEFFERSON RIVER							
12C09	Copper Mountain	7700	5/15	32	10.8	20.5	-
12C11	Rocker Peak	8000	5/16	44	17.2	-	-
12C11	Rocker Peak Pillow	8000	5/16	SP	20.6	-	-
MADISON RIVER							
11E07	West Yellowstone Pillow	6700	5/15	SP	0.3	8.4	-
GALLATIN RIVER							
10D14	Arch Falls	7350	5/13	46	17.9	19.0	-
10D15	Bridger Bowl	7250	5/15	90	39.7	38.2	-
10D15	Bridger Bowl Pillow	7250	5/15	SP	37.5	36.1	-
10D04	Devil's Slide	8100	5/13	77	33.7	32.4	25.0*
10D03	Hood Meadow	6600	5/13	22	8.5	10.5	-
10D13	Lick Creek	6860	5/13	21	8.0	11.4	-
10D13	Lick Creek Pillow	6860	5/13	SP	8.0	9.8	-
10D18	Maynard Creek	6210	5/15	46	20.6	18.5	-
10D18	Maynard Creek Pillow	6210	5/15	SP	17.7	15.4	-
10D16	Shower Falls	8100	5/13	78	36.3	35.5	-
10D16	Shower Falls Pillow	8100	5/13	SP	31.9	33.1	-
MISSOURI RIVER (Main Stem)							
10C09	Deadman Creek	6450	5/14	12	5.0	15.0	-
10C09	Deadman Creek Pillow	6450	5/14	SP	3.5	-	-
10C01	Kings Hill	7500	5/14	44	17.5	23.6	-
JUDITH RIVER							
10C06	Spur Park	8000	5/14	61	25.6	36.0	-
10C06	Spur Park Pillow	8000	5/14	SP	23.8	35.3	-
UPPER YELLOWSTONE RIVER							
9D01	Camp Senia	7890	5/15	34	9.7	12.4	-
9D07	Cooke Station	8150	5/14	40	17.2	28.8	-
9D06	Fisher Creek	9100	5/14	82	37.6	54.3	-
9D06	Fisher Creek Pillow	9100	5/14	SP	32.4	54.4	-
10D07	Northeast Entrance	7400	5/14	7	2.6	10.6	-
10D07	Northeast Entrance Pillow	7350	5/14	SP	2.3	10.6	-
9D04	Timberline Creek	8850	5/15	53	17.8	24.2	-
9D08	White Mill	8700	5/14	61	26.4	40.3	-

SP - Snow pillow observation - water content only.

NOTE: ALL AVERAGES BASED ON 1948-1962 (15 YEAR PERIOD). *ADJUSTED AVERAGE

SNOW SURVEY DATA

AS OF MAY 15, 1958

Station Code	Basin	Snow Course	Date of Survey	Snow Depth	Water Content	Percent Average Snow Depth	Percent Average Water Content
						Snow Course	Snowmelt Index
						Snowmelt Index	Percent Average
	MISSOURI RIVER BASIN						
	JEFFERSON RIVER						
12G09	Copper Mountain	7700	5/15	12	10.8	20.5	-
12C11	Rocker Peak	8000	5/16	44	17.2	-	-
12C11	Rocker Peak Pillow	8000	5/10	SP	20.6	-	-
	MADISON RIVER						
11E07	West Yellowstone Pillow	6700	5/15	SP	0.3	8.-	-
	GALLATIN RIVER						
10D14	Arch Falls	7350	5/13	44	17.9	19.0	-
10D15	Bridger Bowl	7250	5/15	50	29.7	32.2	-
10D15	Bridger Bowl Pillow	7250	5/15	SP	27.5	28.1	-
10D04	Devil's Slide	8100	5/13	77	33.7	32.4	23.0%
10D07	Hood Meadow	6800	5/13	44	8.5	10.5	-
10D13	Lick Creek	6860	5/13	21	8.0	14.4	-
10D13	Lick Creek Pillow	6860	5/13	SP	8.0	9.8	-
10D16	Maynard Creek	6210	5/15	46	20.6	18.1	-
10D16	Maynard Creek Pillow	6210	5/15	SP	17.7	15.4	-
10D16	Shower Falls	8100	5/13	78	34.1	32.5	-
10D16	Shower Falls Pillow	8100	5/13	SP	31.9	33.1	-
	MISSOURI RIVER (Main Stem)						
10C09	Deadman Creek	6450	5/14	12	5.0	15.0	-
10C09	Deadman Creek Pillow	6450	5/14	SP	3.5	-	-
10C01	Kings Hill	7500	5/14	44	17.5	29.6	-
	MISSOURI RIVER						
10C06	Sun Park	8000	5/14	61	25.6	36.0	-
10C06	Sun Park Pillow	8000	5/14	SP	23.8	35.5	-
	SMITH RIVER/MISSOURI RIVER						
9D01	Camp Sonia	7840	5/15	34	9.7	12.4	-
9D07	Cooke Station	8150	5/14	40	17.2	28.8	-
9D06	Flaher Creek	6100	5/14	22	37.6	54.3	-
9D06	Flaher Creek Pillow	6100	5/14	SP	32.4	34.4	-
10C07	Horsesset Meadows	7400	5/14	7	2.0	10.6	-
10C07	Northeast Fork Pillow	7250	5/14	SP	2.5	10.6	-
9D04	Timberline Creek	9250	5/15	50	17.3	24.2	-
9D08	White Mill	8700	5/14	61	26.4	40.3	-

SP - Snow pillow observation - water content only.

NOTE: MA AVERAGE BASED ON 1948-1968 (18 YEAR PERIOD). - NO DATA AVAILABLE

SNOW SURVEY DATA

AS OF JUNE 1, 1968

(Inches)

SNOW COURSE			CURRENT DATA			PAST RECORD	
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	WATER CONTENT	
						LAST YEAR	AVERAGE
COLUMBIA RIVER BASIN							
KOOTENAI RIVER							
BC 11	Glacier	4100	5/30	32	15.5	26.2	8.4*
14A11	Graves Creek	4300	5/28	0	0.0	4.6	-
BC 43	Gray Creek	5100	5/29	22	9.2	20.1	9.5*
BC 32	Marble Canyon	5000	5/30	0	0.0	3.4	1.4*
15A01	Red Mountain	6000	5/28	12	5.4	10.2	6.6*
14A07	Weasel Divide	5450	5/28	38	18.2	31.5	19.0*
FLATHEAD RIVER							
13B03	Big Creek	6750	5/28	105	52.0	49.6	42.5*
13A02	Desert Mountain	5600	5/28	0	0.0	0.0	-
13B04	Fatty Creek	5500	5/28	20	9.6	14.8	6.0*
14A03	Hell Roaring Divide	5770	5/29	23	11.1	23.3	13.5*
13B07	North Fork Jocko	6330	5/29	58	29.7	42.0	30.3*
CLARK FORK RIVER							
13C13	Black Pine	7100	5/28	10	4.6	8.0	-
13C13	Black Pine Pillow	7100	5/28	SP	6.0	10.2	-
14C10	Heart Lake Trail	4800	5/28	0	0.0	9.4	-
15C10	Hoodoo Basin	6000	5/28	69	35.4	46.3	-
15C10	Hoodoo Basin Pillow	6000	5/28	SP	32.8	40.2	-
15C01	Hoodoo Creek	5900	5/28	64	31.2	47.6	-
15B02	Lookout	5250	5/29	22	11.0	22.8	-
13C03	Skalkaho Summit	7260	5/28	39	18.8	24.3	14.1*
13C01	Stuart Mountain	7400	5/30	49	24.4	20.3	20.4*
14B01	TV Mountain	6800	5/30	23	10.0	8.0	-
BITTERROOT RIVER							
13D02	Gibbons Pass	7100	5/31	14	6.4	15.4	6.7*
14C07	Lost Horse	5940	5/30	37	18.2	26.6	-
13D22	Saddle Mountain	7940	5/31	43	20.6	25.7	-
13D22	Saddle Mountain Pillow	7940	5/31	SP	20.0	-	-
14C13	Twelvemile Creek	5600	5/30	0	0.0	-	-
14C13	Twelvemile Creek Pillow	5600	5/30	SP	0.0	-	-
14C08	Twin Lakes	6510	5/30	64	32.4	39.0	-
14C12	Twin Lakes Pillow	6400	5/31	SP	29.6	-	-

SP - Snow pillow observation - water content only.

NOTE: ALL AVERAGES BASED ON 1948-1962 (15 YEAR PERIOD). *ADJUSTED AVERAGE

SNOW SURVEY DATA

AS OF JUNE 1, 1934

Snow Course			Current Year			Past Record		
No.	Name	Elevation	Date of Survey	Depth Snow	Water Content	Date Of Survey	Depth Snow	Water Content
COLUMBIA RIVER BASIN								
KOOTENAI RIVER								
8C 11	Glacier	4100	5/30	52	15.4	26.2	8.4*	
1A11	Bruce Creek	4300	5/28	0	0.0	4.6	-	
8C 13	Dirty Creek	5100	5/29	22	9.2	20.1	6.5*	
8C 32	Marble Canyon	5000	5/30	0	0.0	3.4	1.4*	
1A01	Red Mountain	6000	5/28	12	5.4	10.2	6.6*	
1A07	Mineral Divide	5150	5/28	34	12.2	31.3	19.0*	
FLATHEAD RIVER								
1B03	Big Creek	4750	5/28	105	32.0	49.6	42.5*	
1A02	Desert Mountain	5000	5/28	0	0.0	0.0	-	
1B01	Kelly Creek	5500	5/25	20	9.6	14.2	6.0*	
1A03	Hell Roaring Divide	5770	5/29	23	11.1	23.3	13.5*	
1B07	North Fork Jocko	6330	5/29	58	29.7	42.0	30.3*	
CLARK FORK RIVER								
1B13	Black Pine	7100	5/28	10	4.6	8.0	-	
1B13	Black Pine Pillow	7100	5/28	MP	6.0	20.2	-	
1A10	Heart Lake Trail	4800	5/28	0	0.0	9.4	-	
1B10	Rocky Basin	6000	5/28	69	35.4	45.3	-	
1B10	Rocky Basin Pillow	6000	5/28	MP	32.8	40.2	-	
1B01	Rocky Creek	5900	5/28	64	31.2	47.6	-	
1B02	Lookout	6350	5/29	22	11.0	26.8	-	
1B03	Emerald Creek	7400	5/28	39	18.8	24.3	14.1*	
1B01	Short Mountain	7400	5/30	49	24.4	30.3	20.4*	
1B01	TV Mountain	7800	5/30	23	10.0	8.0	-	
BITTERROOT RIVER								
1B02	Gibbons Pass	7100	5/31	14	6.4	14.4	6.7*	
1A07	Lost Horse	7400	5/30	37	18.2	26.6	-	
1B02	Saddle Mountain	7400	5/31	43	20.6	25.7	-	
1A02	Saddle Mountain Pillow	7400	5/31	MP	20.0	-	-	
1A03	Twelvemile Creek	5800	5/30	0	0.0	-	-	
1A03	Twelvemile Creek Pillow	5800	5/30	MP	0.0	-	-	
1A02	Twin Lakes	6100	5/30	64	32.4	39.0	-	
1A02	Twin Lakes Pillow	6100	5/31	MP	29.6	-	-	

MP - Snow pillow observation - water content only.

NOTE: USA AVERAGES BASED ON 1908-1930 (BA YEAR REVIEW). COLUMBIA AVERAGE

SNOW SURVEY DATA

AS OF JUNE 1, 1968

(Inches)

SNOW COURSE			CURRENT DATA			PAST RECORD	
						WATER CONTENT	
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE
	MISSOURI RIVER BASIN						
JEFFERSON RIVER							
12C11	Rocker Peak	8000	6/3	23	10.2	-	-
12C11	Rocker Peak Pillow	8000	6/3	SP	16.9	-	-
MADISON RIVER							
11E07	West Yellowstone Pillow	6700	6/1	SP	0.0	0.0	-
GALLATIN RIVER							
10D14	Arch Falls	7350	6/4	32	14.4	9.0	-
10D15	Bridger Bowl	7250	5/31	73	35.9	27.2	-
10D15	Bridger Bowl Pillow	7250	5/31	SP	30.8	22.6	-
10D04	Devil's Slide	8100	6/4	72	33.2	24.0	21.0*
10D03	Hood Meadow	6600	6/4	1	0.5	-	-
10D13	Lick Creek	6860	6/1	0	0.0	0.0	-
10D13	Lick Creek Pillow	6860	6/1	SP	0.0	0.0	-
10D18	Maynard Creek	6210	5/31	20	9.0	4.3	-
10D18	Maynard Creek Pillow	6210	5/31	SP	9.9	4.1	-
10D16	Shower Falls	8100	6/4	74	37.5	27.0	-
10D16	Shower Falls Pillow	8100	6/4	SP	31.0	23.6	-
MISSOURI RIVER (Main Stem)							
10C09	Deadman Creek	6450	5/31	0	0.0	0.0	-
10C09	Deadman Creek Pillow	6450	5/31	SP	0.0	-	-
10C01	Kings Hill	7500	5/31	35	15.6	15.5	-
JUDITH RIVER							
10C06	Spur Park	8000	5/31	57	25.1	29.2	-
10C06	Spur Park Pillow	8000	5/31	SP	25.2	27.4	-
UPPER YELLOWSTONE RIVER							
9D01	Camp Senia	7890	5/28	28	8.9	3.9	-
9D07	Cooke Station	8150	5/29	30	13.6	18.2	-
9D06	Fisher Creek	9100	5/29	77	37.2	48.3	-
9D06	Fisher Creek Pillow	9100	5/29	SP	34.0	47.2	-
10D07	Northeast Entrance	7400	5/29	0	0.0	0.9	-
10D07	Northeast Entrance Pillow	7350	5/29	SP	0.0	0.0	-
9D04	Timberline Creek	8850	5/28	46	19.5	12.4	-
9D08	White Mill	8700	5/29	56	26.3	33.2	-

SP - Snow pillow observation - water content only.

NOTE: ALL AVERAGES BASED ON 1948-1962 (15 YEAR PERIOD). *ADJUSTED AVERAGE

SNOW SURVEY DATA

AS OF JUNE 1, 1968

Station Number	Station Name	Elevation	Date of Survey	Snow Depth	Water Content	Percent Normal	Last Year	Average
MISSOURI RIVER BASIN								
JEFFERSON RIVER								
1C01J	Rocker Peak	8000	6/3	22	10.2	-		-
1C01J	Rocker Peak Pillow	8000	6/3	SP	16.9	-		-
MADISON RIVER								
1I07J	West Yellowstone Pillow	6700	6/1	SP	0.0	0.0		-
GALLATIN RIVER								
1C01A	Arch Falls	7350	6/4	32	14.4	0.0		-
1C01S	Bridger Bowl	7250	5/31	75	35.9	27.2		-
1C01S	Bridger Bowl Pillow	7250	5/31	SP	30.8	22.6		-
1C06J	Devil's Slide	8100	6/4	72	33.2	24.0		21.0*
1C03J	Hood Meadow	6000	6/4	1	0.5	-		-
1C01J	Lick Creek	6860	6/1	0	0.0	0.0		-
1C01J	Lick Creek Pillow	6860	6/1	SP	0.0	0.0		-
1C01S	Maynard Creek	6210	5/31	20	9.0	4.3		-
1C01S	Maynard Creek Pillow	6210	5/31	SP	9.9	4.1		-
1C01J	Shower Falls	8100	6/4	74	37.5	27.0		-
1C01J	Shower Falls Pillow	8100	6/4	SP	31.0	23.6		-
MISSOURI RIVER (Main Stem)								
1C00J	Deadman Creek	6450	5/31	0	0.0	0.0		-
1C00J	Deadman Creek Pillow	6450	5/31	SP	0.0	-		-
1C00J	Kings Hill	7500	5/31	30	15.6	15.5		-
JUDITH RIVER								
1C00J	Spur Park	8000	5/31	47	25.1	29.2		-
1C00J	Spur Park Pillow	8000	5/31	SP	25.2	27.4		-
UPPER YELLOWSTONE RIVER								
9D01	Camp Sonia	7350	5/28	26	8.9	3.0		-
9D07	Cooke Station	8150	5/29	50	13.6	18.2		-
9D06	Fisher Creek	9100	5/29	77	37.2	48.3		-
9D06	Fisher Creek Pillow	9100	5/29	SP	24.0	47.2		-
1C07J	Northeast Entrance	7100	5/29	0	0.0	0.3		-
1C07J	Northeast Entrance Pillow	7350	5/29	SP	0.0	0.0		-
9D04	Tidepole Creek	8850	5/28	46	19.5	12.4		-
9D08	White Mill	8700	5/29	56	26.3	32.2		-

SP - Snow pillow observation - water contents only.

NOTE: All averages based on 1956-1968 (1st year prior).

SOIL MOISTURE DATA

AS OF JUNE 1, 1968

(Inches)

SOIL MOISTURE STATION			SOIL PROFILE		CURRENT DATA		PAST RECORD	
NO.	NAME	ELEVATION	DEPTH	FIELD CAPACITY	DATE OF SURVEY	SOIL MOISTURE	LAST YEAR	**AVERAGE
			COLUMBIA RIVER BASIN					
Kootenai								
15B15M	Baree Trail	3800	48	7.5				
14A10M	Murphy Lake R. S.	3000	48	22.6	5/28	20.2	21.1	-
15A02M	Raven R. S.	3050	48	23.0				
Flathead								
13A02M	Desert Mountain	5600	54	8.4	5/28	9.2	9.8	8.9
13A05M	Marias Pass	5250	54	6.5	5/31	5.5	6.2	5.9
Clark Fork								
13C13M	Black Pine	7100	48	10.0	5/28	8.5	9.2	-
13B19M	Seeley Lake R. S.	4030	48	11.9				
13C03M	Skalkaho Summit	7260	48	10.8	5/28	10.0	10.2	-
Bitterroot								
13D18M	Gibbons Pass	7100	48	7.1	5/31	7.2	6.8	7.0
14C05M	Lolo Pass	5250	48	10.6	5/29	10.0	9.6	9.9
			MISSOURI RIVER BASIN					
Beaverhead								
11E13M	Lakeview	6700	48	15.3				
Madison								
10D04M	Red Bluff	4800	40	4.7	6/3	2.1	1.8	2.3
11E07M	West Yellowstone	6700	48	6.5	5/28	3.1	3.2	-
Gallatin								
10D15M	Bridger Bowl	7250	48	17.0	5/31	17.0	15.5	-
11D02M	College Site	4856	54	14.5	6/4	13.5	10.4	11.1
10D13M	Lick Creek	6860	48	18.8	6/3	17.1	19.2	-
11E06M	Twenty-One Mile	7150	48	10.0	5/29	9.7	10.0	9.9
Missouri Main Stem								
10C01M	Kings Hill	7420	48	11.8	5/31	10.0	11.2	10.9
13C08M	Stemple Pass	6350	48	5.9	5/31	5.2	5.1	5.2
Yellowstone								
10D11M	Battle Ridge	6020	48	17.6	5/31	16.8	16.5	15.5
10D07M	Northeast Entrance	7350	48	9.4	6/2	9.4	9.1	9.1

**AVERAGE FOR PERIOD OF RECORD

SOIL MOISTURE DATA

AS OF JUNE 1, 1968

(inches)

SOIL MOISTURE STATION			SOIL PROFILE		SUMMARY DATA		PAST RECORD	
NO.	NAME	ELEVATION	DEPTH	FIELD CAPACITY	DATE OF SURVEY	SOIL MOISTURE	LAST YEAR	**AVE
	COLUMBIA RIVER BASIN							
	Kootenai							
15B15M	Dorse Trail	3400	48	7.5				
14A10M	Murphy Lake R. S.	3000	48	22.6	5/28	20.2	21.1	-
15A02M	Raven R. S.	3050	48	23.0				
	Flathead							
13A02M	Desert Mountain	5600	54	8.4	5/28	9.2	9.8	8.0
13A05M	Marias Pass	5250	54	6.5	5/31	5.5	6.2	5.9
	Clark Fork							
12C12M	Black Pine	7100	48	10.0	5/28	8.5	9.2	-
13B19M	Seeley Lake R. S.	4030	48	11.9				
12C03M	Skalkaho Summit	7260	48	10.8	5/28	10.0	10.2	-
	Bitterroot							
13D18M	Gibbons Pass	7100	48	7.1	5/31	7.2	6.8	7.0
14C05M	Lolo Pass	5250	48	10.6	5/29	10.0	9.6	9.9
	MISSOURI RIVER BASIN							
	Beaverhead							
11H13M	Lakeview	6700	48	15.3				
	Madison							
10D02M	Red Bluff	4800	40	4.7	6/3	5.1	1.8	2.3
11E07M	West Yellowstone	6700	48	6.5	5/28	3.1	3.2	-
	Gallatin							
10D15M	Bridger Bowl	7250	48	17.0	5/31	17.0	15.5	-
11D02M	College Site	4850	54	14.5	6/4	11.5	10.4	11.1
10D13M	Lick Creek	5800	48	18.8	6/3	17.1	19.2	-
11E06M	Twenty-One Mile	7450	48	10.0	5/29	9.7	10.0	9.9
	Missouri Main Stem							
10C01M	Kings Hill	7420	48	11.8	5/31	10.0	11.2	10.9
13C06M	Stemple Pass	6350	48	5.9	5/31	5.2	5.1	5.2
	Yellowstone							
10D11M	Cattle Ridge	6020	48	17.6	5/31	16.8	16.5	15.5
10D07M	Northeast Entrance	7350	48	9.1	6/2	9.4	9.1	9.1

**AVERAGE FOR PERIOD OF RECORD

RESERVOIR STORAGE DATA

AS OF MAY 31, 1968

(1000 Acre-Feet)

BASIN	RESERVOIR	USEABLE CAPACITY	USEABLE STORAGE THIS YEAR	USEABLE STORAGE LAST YEAR	USEABLE STORAGE AVERAGE
COLUMBIA RIVER BASIN					
Flathead	Hungry Horse	3,428.0	2,817.0	2,076.0	2,793.6**
	Flathead Lake	1,791.0	1,415.0	1,400.0	1,559.2
	Camas (Sum of 4)	45.2	27.8	38.5	41.7
	Mission Valley (Sum of 8)	100.3	59.8	44.6	68.8
Clark Fork	Georgetown Lake	31.0	27.3	22.0	24.0
	Noxon Rapids	334.6		-	-
Bitterroot	Como	34.9	24.7	24.2	29.0
	Painted Rocks	31.7	33.0	33.4	32.4
MISSOURI RIVER BASIN					
Beaverhead	Clark Canyon	328.9	153.3	120.7	-
	Lima	84.0	79.4	43.9	58.1
Ruby	Ruby	38.8		-	35.4**
Madison	Hebgen Lake	377.5	317.4	281.4	270.5
	Ennis Lake	41.0	40.2	38.6	35.6
Gallatin	Middle Creek	8.0	6.9	6.6	6.4**
Missouri	Canyon Ferry	2,043.0	1,395.0	1,347.0	1,756.8**
	Hauser & Helena	61.9	61.9	59.6	53.2
	Lake Helena	10.4	10.4	9.6	7.6
	Holter Lake	81.9	79.8	74.0	72.8
	Smith River	10.7	11.4	10.8	8.7
	Ackley Lake	5.8		-	4.2
	Durand	7.0	7.0	6.6	6.4
	Martinsdale	23.1	14.7	14.9	15.0
	Deadman's Basin	72.2	53.4	68.2	46.8**
	Fort Peck	19,410.0	16,840.0	16,010.0	11,651.7
Sun	Gibson	105.0	66.9	94.3	94.4
	Willow Creek	32.3	26.3	21.8	27.0
	Pishkun	32.0	31.2	32.2	28.4
Marias	Lower Two Medicine			-	9.0
	Four Horns	19.2		12.1	11.6
	Swift	30.0	22.4	-	29.6
	Lake Frances	112.0	77.3	96.8	104.4
	Tiber	1,347.0	467.0	632.8	729.5**
Milk	Fresno	127.2	98.7	127.8	107.1
	Nelson	66.8	41.0	53.5	40.7
	Lake Sherburne	66.1	18.8	14.0	35.2
Yellowstone	Mystic Lake	20.8	1.5	11.7	6.3
	Tongue River	68.0	38.5	53.8	28.7
	Cooney	27.5	19.4	17.2	17.9**
Big Horn	Yellowtail	1,356.0	672.1	773.8	-

NOTE: ALL AVERAGES BASED ON 1948-1962 (15 YEAR PERIOD). **AVERAGE FOR PERIOD OF RECORD

RESERVOIR STORAGE DATA

AS OF MAY 31, 1968

(1000 Acre Feet)

BASIN	RESERVOIR	USEABLE CAPACITY	USEABLE STORAGE THIS YEAR	USEABLE STORAGE LAST YEAR	USEABLE STORAGE AVERAGE
COLUMBIA RIVER BASIN					
Flathead	Hungry Horse	3,428.0	2,817.0	2,076.0	2,793.6*
	Flathead Lake	1,791.0	1,413.0	1,400.0	1,599.2
	Cabin (Sum of 4)	48.2	27.8	38.3	41.7
	Kintzing Valley (Sum of 8)	100.3	99.8	44.6	68.8
Clark Fork	Georgetown Lake	31.0	27.3	22.0	24.0
	Noxon Rapids	32.0		—	
Bitterroot	Como	34.5	21.7	24.2	29.0
	Painted Rocks	32.7	23.0	33.4	32.4
MISSOURI RIVER BASIN					
Beaverhead	Clark Canyon	328.9	153.3	120.7	-
	Lima	84.0	79.4	43.9	58.1
Ruby	Ruby	38.8		—	35.4*
Madison	Hebgen Lake	327.5	317.4	281.4	278.5
	Ennis Lake	41.0	40.2	38.6	35.6
Gallatin	Middle Creek	8.0	6.9	6.6	6.4*
Missouri	Canyon Ferry	2,042.0	1,395.0	1,347.0	1,756.8*
	Hauser & Helena	61.9	61.9	59.6	53.2
	Lake Helena	10.4	10.4	9.6	7.6
	Holter Lake	82.9	79.8	74.0	72.8
	Smith River	10.7	11.4	10.8	8.7
	Ackley Lake	5.8	—		4.2
	Durand	7.0	7.0	6.6	6.4
	Martinsdale	23.1	14.7	14.9	15.0
	Deadwood Basin	72.2	55.4	68.2	46.9*
	Fort Peck	19,410.0	16,840.0	16,010.0	14,651.7
Sun	Gibson	105.0	66.9	94.3	91.4
	Willow Creek	32.3	26.3	21.8	27.0
	Pishkun	22.0	11.2	32.2	28.4
Marias	Lower Two Medicine		—		9.0
	Upper Sorns	19.2		12.1	11.6
	Swift	30.0	22.4	—	29.6
	Lake Frances	122.0	77.3	96.8	102.4
	Tiber	1,342.0	420.0	632.8	729.5*
MILK	Fresno	127.2	98.7	127.8	107.1
	Nelson	66.8	41.0	53.3	40.7
	Lake Sherburne	65.1	18.2	14.0	35.2
Yellowstone	Myrtle Lake	20.8	1.5	11.7	6.3
	Tongue River	68.0	36.3	53.8	28.7
	Cooney	27.5	19.4	17.2	17.9*
Big Horn	Yellowtail	1,328.0	672.1	773.8	-

NOTE: ALL AVERAGES BASED ON 1948-1962 (15 YEAR PERIOD). *AVERAGE FOR PERIOD OF RECORD

Agencies and Organizations Cooperating in Montana Snow Surveys

U. S. Forest Service
Region I, Missoula, Montana
Montana Forests and Ranger Districts

U. S. Geological Survey
Helena, Montana
Portland, Oregon

U. S. Army Corps of Engineers
Portland, Oregon
Seattle, Washington
Walla Walla, Washington
Omaha, Nebraska

U. S. Indian Irrigation Service
St. Ignatius, Montana

U. S. Weather Bureau
Helena, Montana
Portland, Oregon
Kansas City, Missouri

U. S. Bureau of Sports Fisheries and Wildlife
Red Rock Lakes Refuge
Monida, Montana

U. S. Bureau of Reclamation
Billings, Montana
Boise, Idaho

U. S. Bonneville Power Administration
Portland, Oregon

U. S. Soil Conservation Service
Montana, Wyoming, Idaho

Soil and Water Conservation Districts
Montana Counties

U. S. National Park Service
Yellowstone National Park
Glacier National Park

Montana Power Company
Butte, Montana

Montana Water Resources Board
Helena, Montana

North Montana Branch Station
Agricultural Experiment Station
Havre, Montana

Montana State University
Agricultural Experiment Station
Bozeman, Montana

University of Montana
School of Forestry
Missoula, Montana

Water Rights Branch, Dept. of Lands and Forests
Victoria, British Columbia

Department of Energy, Mines and Resources
Calgary, Alberta

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